==========
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: [year=2008; month=6; day=10; hr=18; min=0; sec=30; ms=213; ]
==========

**Validated By CRFValidator v 1.0.3**

Application No: 10534292 Version No: 1.1

**Input Set:**

**Output Set:**

| | |
|---|---|
| **Started:** | 2008-06-10 17:57:58.364 |
| **Finished:** | 2008-06-10 17:58:01.592 |
| **Elapsed:** | 0 hr(s) 0 min(s) 3 sec(s) 228 ms |
| **Total Warnings:** | 0 |
| **Total Errors:** | 0 |
| **No. of SeqIDs Defined:** | 143 |
| **Actual SeqID Count:** | 143 |

SEQUENCE LISTING

<110> Silence, Karen
Vaeck, Mark
Van Bergen En Henegouwen, Paul

<120> METHOD OF ADMINISTERING THERAPEUTIC POLYPEPTIDES,
AND POLYPEPTIDES THEREFOR

<130> A0848.70004US00

<140> 10534292
<141> 2005-05-09

<150> PCT/BE2003/000190
<151> 2003-11-07

<150> US 60/425,073
<151> 2002-11-08

<150> US 60/425,063
<151> 2002-11-08

<150> EP 03447005.4
<151> 2003-01-10

<150> PCT/EP03/06581
<151> 2003-06-23

<150> PCT/EP03/07313
<151> 2003-07-08

<160> 143

<170> PatentIn version 3.1

<210> 1

<211> 121

<212> PRT

<213> Lama glama

<400> 1

```
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Arg Ala Ser Gly Arg Ile Phe Arg Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Thr Ile Thr Ser Thr Gly Ser Thr Asn Phe Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Tyr Arg Asp Gly Ala Lys Arg Thr Val Asp Leu
65                  70                  75                  80

Arg Leu Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Asn
                85                  90                  95

Ala Asp Val Arg Glu Tyr Asp Leu Gly Pro Trp Arg Gln Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120
```

<210> 2

<211> 121

<212> PRT

<213> Lama glama

<400> 2

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ser Val Ser Gly Thr Ser Ile Ser Asn Arg
            20                  25                  30

Val Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Asp Phe Val
        35                  40                  45

Ala Tyr Ile Thr Ser Ala Val Asn Thr Asp Tyr Ala Asp Phe Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Met Val His Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95

Val Leu Lys Asp Thr Trp Phe Arg Thr Pro Tyr Asp Tyr Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120
```

<210> 3

<211> 125

<212> PRT

<213> Lama glama

<400> 3

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asp
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Arg Thr Leu Ser Tyr Ser
            20                  25                  30

Ser Leu Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Asp Phe Val
        35                  40                  45
```

```
Ala Ala Leu Ser Leu Thr Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg
    50                  55                  60

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met
65                  70                  75                  80

Asn Ser Leu Lys Pro Asp Asp Thr Ala Asp Tyr Phe Cys Ala Thr Ala
                85                  90                  95

Arg Thr Arg Thr Asp Tyr Ala Pro Leu Leu Ser Ala Ala Ser Thr Tyr
            100                 105                 110

Asp Ala Trp Gly Gln Gly Thr Gln Val Thr Val Ser Leu
        115                 120                 125
```

<210> 4

<211> 124

<212> PRT

<213> Lama glama

<400> 4

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ser Arg Tyr Tyr
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Gly Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ala Val Asn Trp Asn Gly Asp Ser Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Gly Asn Ala Glu Asn Thr Ala Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Val Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Met Arg Met Asn Ala Gly Leu Gly Tyr Ser Ala Ala Ser Tyr Gln
```

100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Leu
115 120

<210> 5

<211> 122

<212> PRT

<213> Lama glama

<400> 5

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Leu Glu His
20 25 30

Val Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Gly Ala Ile Asp Trp Ser Gly Arg Arg Ile Thr Tyr Thr Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Asp Arg Thr Tyr Ser Tyr Ser Ser Thr Gly Tyr Tyr Tyr Trp
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 6

<211> 122

<212> PRT

<213> Lama glama

<400> 6

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Leu Glu His
20 25 30

Val Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Gly Ala Ile Asp Trp Ser Gly Arg Arg Ile Thr Tyr Thr Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Asp Arg Thr Tyr Ser Tyr Ser Ser Thr Gly Tyr Tyr Tyr Trp
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 7

<211> 126

<212> PRT

<213> Lama glama

<400> 7

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Leu Ser Ser Tyr
20 25 30

```
Thr Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ser Ile Ser Ser Ser Gly Ile Ser Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Lys Tyr Arg Tyr Tyr Ser Thr Leu Tyr Thr Lys Ser Gly Glu
            100                 105                 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
```

<210> 8

<211> 126

<212> PRT

<213> Lama glama

<400> 8

```
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Arg Thr Ile Ser Ser Tyr
            20                  25                  30

Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ser Ile Ser Ser Ser Gly Val Ser Lys His Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Asn Asp Lys Val Lys Asn Thr Val Tyr
65                  70                  75                  80
```

```
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys
                85                  90                  95

Ala Ala Lys Tyr Arg Tyr Tyr Ser Ser Tyr Tyr Thr Lys Ser Gly Asp
            100                 105                 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
```

<210> 9

<211> 121

<212> PRT

<213> Lama glama

<400> 9

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Ser Thr Tyr
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ala Val Ser Tyr Ser Gly Ser Tyr Tyr Ala Asp Ser Val Lys Gly
    50                  55                  60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
65                  70                  75                  80

Met Ala Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
                85                  90                  95

Arg Asn Arg Gly Tyr Ser Thr Tyr Ala Gly Val Tyr Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120
```

<210> 10

<211> 125

<212> PRT

<213> Lama glama

<400> 10

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Ser Ser Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ser Ile Thr Trp Ile Gly Gly Gly Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp His Ala Gly Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Thr Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Asp Arg Arg Ser Ser Thr Tyr Tyr Leu Met Lys Gly Glu Tyr
100 105 110

Asp Tyr Arg Gly Arg Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 11

<211> 125

<212> PRT

<213> Lama glama

<400> 11

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

```
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Ser Ser Tyr
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ser Ile Thr Trp Thr Gly Thr Gly Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp His Ala Gly Thr Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Val Asp Arg Arg Ser Ser Thr Tyr Tyr Leu Met Lys Gly Glu Tyr
            100                 105                 110

Asp Tyr Arg Gly Arg Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
```

<210> 12

<211> 151

<212> PRT

<213> Lama glama

<400> 12

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Asp His
            20                  25                  30

Ser Gly Tyr Thr Tyr Thr Ile Gly Trp Phe Arg Gln Ala Pro Lys Glu
        35                  40                  45

Arg Glu Phe Val Ala Arg Ile Tyr Trp Ser Ser Gly Asn Thr Tyr Tyr
    50                  55                  60
```

```
Ala Asp Ser Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Ile Ala Lys
65                  70                  75                  80

Asn Thr Val Asp Leu Thr Met Asn Asn Leu Glu Pro Glu Asp Thr Ala
                85                  90                  95

Val Tyr Tyr Cys Ala Ala Arg Asp Gly Ile Pro Thr Ser Arg Ser Val
            100                 105                 110

Glu Ser Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125

Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala
    130                 135                 140

Ala His His His His His His
145                 150
```

<210> 13

<211> 124

<212> PRT

<213> Lama glama

<400> 13

```
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Thr Phe Ser Ser Ile
            20                  25                  30

Ile Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Gly Ala Val Ser Trp Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val
    50                  55                  60

Leu Gly Arg Phe Glu Ile Ser Arg Asp Ser Ala Arg Lys Ser Val Tyr
65                  70                  75                  80
```

```
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Arg Pro Tyr Gln Lys Tyr Asn Trp Ala Ser Ala Ser Tyr Asn
            100                 105                 110

Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120
```

<210> 14

<211> 260

<212> PRT

<213> Lama glama

<400> 14

```
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Thr Phe Ser Ser Ile
            20                  25                  30

Ile Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Gly Ala Val Ser Trp Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val
    50                  55                  60

Leu Gly Arg Phe Glu Ile Ser Arg Asp Ser Ala Arg Lys Ser Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Arg Pro Tyr Gln Lys Tyr Asn Trp Ala Ser Ala Ser Tyr Asn
            100                 105                 110

Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr
        115                 120                 125

Pro Lys Pro Gln Pro Ala Ala Ala Gln Val Gln Leu Gln Asp Ser Gly
```

```
    130                 135                 140

Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
145                 150                 155                 160

Ser Gly Gly Thr Phe Ser Ser Ile Ile Met Ala Trp Phe Arg Gln Ala
                165                 170                 175

Pro Gly Lys Glu Arg Glu Phe Val Gly Ala Val Ser Trp Ser Gly Gly
            180                 185                 190

Thr Thr Val Tyr Ala Asp Ser Val Leu Gly Arg Phe Glu Ile Ser Arg
        195                 200                 205

Asp Ser Ala Arg Lys Ser Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
    210                 215                 220

Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Arg Pro Tyr Gln Lys Tyr
225                 230                 235                 240

Asn Trp Ala Ser Ala Ser Tyr Asn Val Trp Gly Gln Gly Thr Gln Val
                245                 250                 255

Thr Val Ser Ser
            260
```

<210>  15

<211>  118

<212>  PRT

<213>  Lama glama

<400>  15

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10
```